

What is claimed is:

1. A computer-implemented method of enhancing a video image, comprising:
 - extracting a sequence of video frames;
 - upsampling each of the video frames;
 - 5 interpolating the upsampled video frames;
 - aligning the interpolated video frames; and
 - creating a single image from the aligned video frames.
2. The method of claim 1, wherein the sequence of video frames are low resolution images.
3. The method of claim 1, wherein said upsample step is by a factor of 4.
4. The method of claim 1, wherein said align step comprises aligning the video images in an x direction and a y direction in a center portion of interest in each video frame.
5. The method of claim 1, comprising extracting the sequence of video frames at 30 frames/sec.
6. The method of claim 1, wherein the sequence of video frames includes 5 video frames.
7. The method of claim 1, comprising correlating the upsampled video images.

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8. The method of claim 7, comprising averaging a pixel intensity from each of the upsampled video frames.

9. The method of claim 1, comprising compensating for platform movement and rotation zoom.

10. The method of claim 1, comprising aligning each the extracted sequence of video frames before said upsample step.

11. The method of claim 1, comprising identifying commonality from one individual frame to the next and overlapping the individual frames and displaying an image representing a continuous area.

12. The method of claim 11, comprising extracting the sequence of video frames at 30 frames/sec.

13. The method of claim 12, wherein the sequence of video frames includes 5 video frames.

14. The method of claim 13, comprising correlating the upsampled video images.

15. The method of claim 14, comprising averaging a pixel intensity from each of the upsampled video frames.

16. The method of claim 15, comprising compensating for platform movement and rotation zoom.

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17. The method of claim 16, comprising aligning each the extracted sequence of video frames before said upsample step.

18. The method of claim 17, comprising identifying commonality from one individual frame to the next and overlapping the individual frames and displaying an image representing a continuous area.

19. The method of claim 18, comprising extracting the sequence of video frames at 30 frames/sec.

20. A computer architecture, comprising:
extracting means for extracting a sequence of video frames;
upsampling means for upsampling each of the video frames;
interpolating means for interpolating the upsampled video frames;
5 aligning means for aligning the interpolated video frames; and
creating means for creating a single image from the aligned video frames.

21. An article, comprising:
at least one sequence of machine executable instructions;
a medium bearing the executable instructions in machine form, wherein
execution of the instructions by one or more processors causes the one or more
5 processors to:

extract a sequence of video frames;
upsample each of the video frames;
interpolate the upsampled video frames;
align the interpolated video frames; and
10 create a single image from the aligned video frames.

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22. A computer system, comprising:

a processor; and

a memory coupled to said processor, the memory having stored therein sequences of instructions, which, when executed by said processor, causes said

5 processor to perform the steps of:

extract a sequence of video frames;

upsample each of the video frames;

interpolate the upsampled video frames;

align the interpolated video frames; and

10 create a single image from the aligned video frames.

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